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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/938,452	08/24/2001	Edmund W. Figiel	1944.NVF	2230
7	2590 03/04/2004		EXAMINER	
7590 03/04/2004 Charles W. Almer		ANTHONY, JOSEPH DAVID		
Counsel, I.P. NATIONAL STARCH AND CHEMICAL COMPANY 10 Finderne Avenue		ART UNIT	PAPER NUMBER	
		1714		
Bridgewater, NJ 08807-3300		DATE MAILED: 03/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office A Con Comment	09/938,452	FIGIEL ET AL.	
Office Action Summary	Examiner	Art Unit	
7	Joseph D. Anthony	1714	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl' If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONTI , cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication  NDONED (35 U.S.C. § 133).	n.
Status			
Responsive to communication(s) filed on <u>04 Fermions</u> This action is <b>FINAL</b> . 2b) ☑ This Since this application is in condition for allowed closed in accordance with the practice under Expression in the Expression in the practice under Expression in the practice under Expression in the practice under Expression in the Expression in the practice under Expression in the Expressi	action is non-final.	•	3
Disposition of Claims			
4) ⊠ Claim(s) 1 and 3-22 is/are pending in the appli 4a) Of the above claim(s) 10-18 and 22 is/are versions.  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1,3-9 and 19-21 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	vithdrawn from consideratio	n.	
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by drawing(s) be held in abeyanc ion is required if the drawing(s	e. See 37 CFR 1.85(a). ) is objected to. See 37 CFR 1.121(d	i).
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in Ap rity documents have been re u (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ormal Patent Application (PTO-152)	

Application/Control Number: 09/938,452

Art Unit: 1714

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

## Claim Rejections - 35 USC § 103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Kielbania, Jr. et al. U.S. Patent Number 5,858,549 or Lee et al. U.S. patent Number 5,840,822.

Kielbania, Jr. et al teaches (hydroxyalkyl)urea (i.e. HAU) cross linking agents which contain a single urea group, at least two hydroxyl groups, and have at least two carbon atoms disposed between the urea group and each hydroxyl group, see abstract and column 2, line 66 to column 3, line 34. The HAU agents are used in compositions with a poly-functional molecule (i.e. PFM), which reads on applicant's "at least one rheology modifying agent" and applicant's "optionally a synthetic additive". Examples of such PEM agents are polymers and copolymers of acrylic acid, (metha) acrylic acid, carboxylic-acid fictionalized

Art Unit: 1714

urethane, vinyl acetates, etc., see abstract and column 2, lines 10-65. Applicant's claims are deemed to be anticipated over the compositions taught in Tables 1-11 in Example 12 both before cross-linking takes place and after cross-linking takes place. It is must be noted that although applicant's specification does not directly state that crossing linking takes place between their HAU agent and "at least one rheology modifying agent" and/or "optionally a synthetic additive" such is deemed to be moot since the claims are directly open to compositions that are cross-linked or not cross-linked.

Lee et al teaches (hydroxyalkyl)urea (i.e. HAU) cross linking agents which contain a single urea group, a single hydroxyl group, and have at least two carbon atoms disposed between the urea group and the hydroxyl group, see abstract and column 2, line 43 to column 3, line 15. The HAU agents are used in compositions with a poly-functional molecule (i.e. PFM), which reads on applicant's "at least one rheology modifying agent" and applicant's "optionally a synthetic additive". Examples of such PEM agents are polymers and copolymers of acrylic acid, (metha) acrylic acid, carboxylic-acid fictionalized urethane, vinyl acetates, etc., see column 1, line 55 to column 2, line 42. Applicant's claims are deemed to be anticipated over the compositions taught in Tables 1-3 in Example 3 both before cross-linking takes place and after cross-linking takes place. It is must be noted that although applicant's specification does not directly state that crossing linking takes place between their HAU agent and "at least one rheology modifying agent" and/or "optionally a synthetic additive" such is deemed to be

Application/Control Number: 09/938,452 Page 4

Art Unit: 1714

moot since the claims are directly open to compositions that are cross-linked or not cross-linked.

4. Claims 8 and 19-21 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kielbania, Jr. et al. U.S. Patent Number 5,858,549 or Lee et al. U.S. patent Number 5,840,822.

Keilbania, Jr. et al and Lee et al have both been described above. Applicant's claim 8 and 19-21 are deemed to be anticipated over said examples in each patent, because the crossed-linked product is deemed to read on a gel. In the alternative, applicant's claims are deemed to be obvious over Keilbania, Jr. et al and Lee et al only because Keilbania, Jr. et al and Lee et al do not expressively state that their cross-linked products are gels. It must be pointed out that applicant disclosure has set forth no definition of what is meant by a "gel", such as a specific viscosity. The term "gel" is known to be a very broad term that can read on compositions of greatly varying viscosities etc.. It is also notoriously well known in the art that gels are very often made by the cross linking of polymers, such as by the process taught in Keilbania, Jr. et al and Lee et al..

# Response to Arguments

5. Applicant's arguments with respect to claims 1, 3-9 and 19-21 have been considered but are most in view of the new ground(s) of rejection.

# Prior-Art Cited But Not Applied

6. Any prior-art reference which is cited on FORM PTO-892 but not applied, is cited only to show the general state of the prior-art at the time of applicant's invention.

#### Examiner Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (571) 272-1117. This examiner can normally be reached on Monday through Thursday from 8:00 a.m. to 6:30 p.m. in the eastern time zone. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on (571) 272-1119. The centralized FAX machine number is (703) 872-9306. All other papers received by FAX will be treated as Official communications and cannot be immediately handled by the Examiner.

Joseph D. Anthony

Primary Patent Examiner

2/24/04

Art Unit 1714